

Appln. No.: 10/696,270
Docket No.: H1799-00228
Reply to Election of Species dated July 1, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A heat pipe assembly comprising:
a first heat pipe having a condenser and a working fluid;
a reservoir that is internal to said first heat pipe containing a non-condensable gas which variably permits access of the working fluid to the condenser of the first heat pipe, depending on a pressure of the working fluid;
and
a second heat pipe having an evaporator that is in thermal contact with the first heat pipe.
2. (Previously Presented) The heat pipe assembly of claim 1, wherein:
the first heat pipe has a longitudinal direction;
the non-condensable gas has a moving front with a range of motion within the condenser of the first heat pipe;
when the moving front is at a first boundary of the range of motion, the working fluid does not access a portion of the condenser in which the evaporator of the second heat pipe is located; and when the moving front is at a second

COPY

Appln. No.: 10/696,270
Docket No.: H1799-00228
Reply to Election of Species dated July 1, 2005

boundary of the range of motion, the working fluid accesses a portion of the condenser in which the evaporator of the second heat pipe is located.

3. (Cancelled)

4. (Currently Amended) The heat pipe assembly of claim 1[[3]], wherein the first heat pipe has no heat sink or fins attached directly thereto.

5. (Original) The heat pipe assembly of claim 1, wherein at least a portion of the evaporator of the second heat pipe is contained inside of the condenser of the first heat pipe.

6. (Original) The heat pipe assembly of claim 1, wherein the reservoir is external to the first heat pipe, and communicates with the condenser of the first heat pipe.

7. – 15. (Cancelled)

COPY